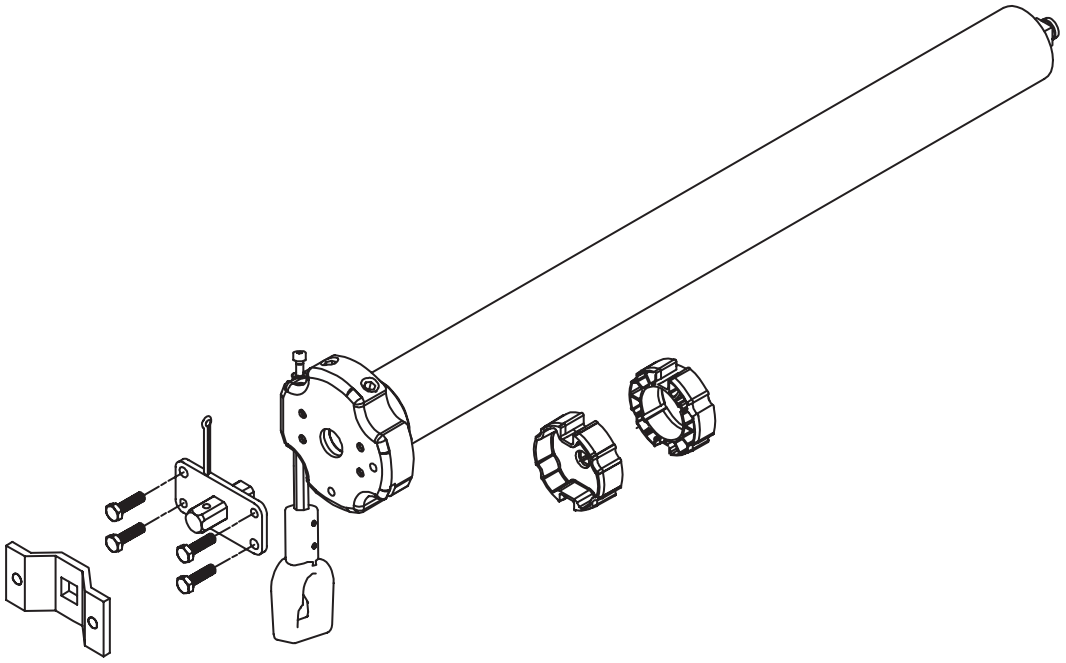
T-MODE



TM 45 M
TM 58 M

FAAC

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DECLARATION OF CONFORMITY

Manufacturer: FAAC S.p.A.

Address: Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY

Declares that: Operator mod. TM 35 - 45 - 58

- conforms to the essential requirements of the following EEC directives:
  - 2006/95/EEC
  - 2004/108/EEC

- it thus conforms to the following harmonised standards:
  - EN 60335-1-95, EN60335-2- 97/10-2000.
  - EN 61000-3-2, EN61000-3-3,
  - EN55014-1, EN55014-2

Bologna, 05/11/2012

The Managing Director
A. Marcellan

WARNINGS FOR THE INSTALLER

GENERAL SAFETY OBLIGATIONS

1. **ATTENTION! To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product could cause serious harm to people. Store these instructions for future reference.**
2. Carefully read the instructions before beginning to install the product.
3. This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.
4. FAAC declines all liability caused by improper use or use other than that for which the automated system was intended.
5. Before attempting any job on the system, cut out electrical power.
6. The installation must be carried out by qualified technical personnel, observing the current legal regulations.
7. The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm or greater.
8. The minimum installation height of the automated system is 2.5 m.
9. Make sure that a differential switch with a threshold of 0.03 A is fitted upstream of the system.
10. For outdoor use, install the electrical cables inside protection raceways.
11. Do not, on any account, connect several motors to the same inverter.
12. Do not connect two inverters to the same motor.
13. For maintenance, strictly use original parts by FAAC.
14. The equipment must always be visible when moving.
15. Do not allow children or adults to stay near the product while it is operating.
16. Keep radiocontrols or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
17. The user must not attempt any kind of repair or direct action whatever and contact qualified personnel only.
18. Anything not expressly specified in these instructions is not permitted.

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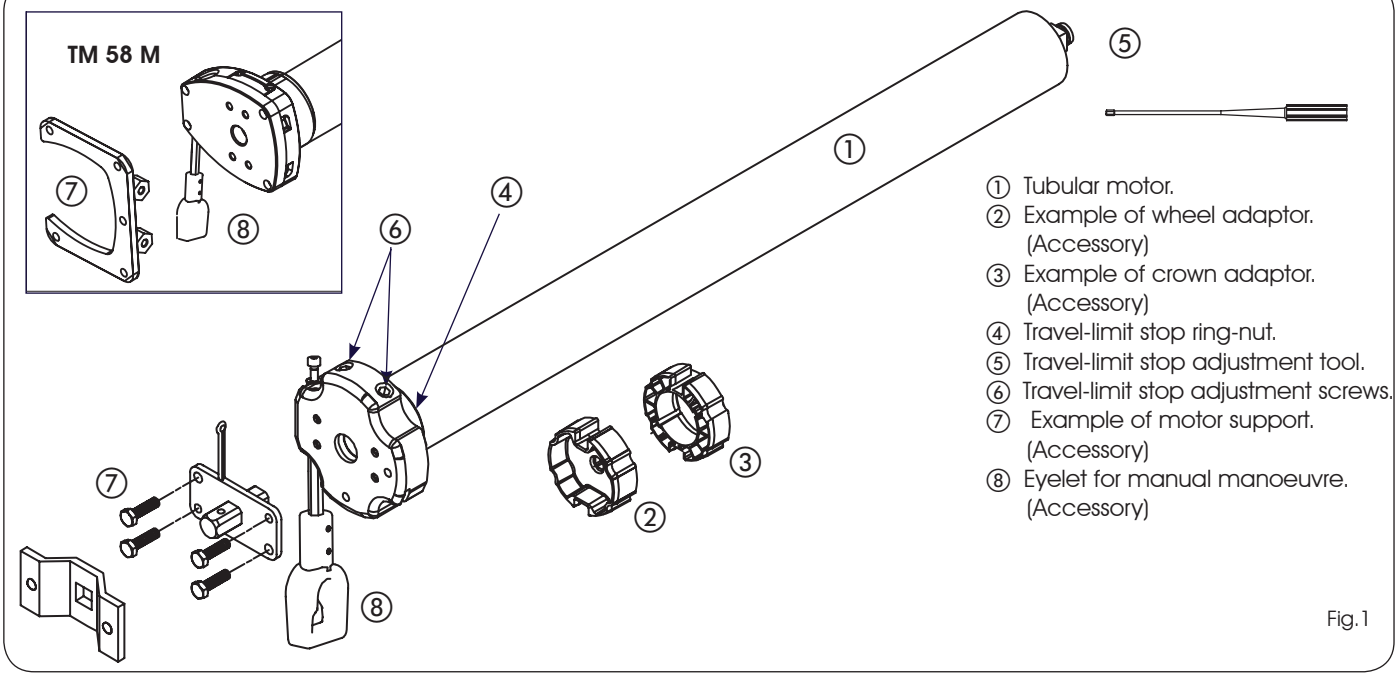
TUBULAR MOTORS T-MODE 45M - 58M

1 DESCRIPTION



① Tubular motor.
② Example of wheel adaptor. (Accessory)
③ Example of crown adaptor. (Accessory)
④ Travel-limit stop ring-nut.
⑤ Travel-limit stop adjustment tool.
⑥ Travel-limit stop adjustment screws.
⑦ Example of motor support. (Accessory)
⑧ Eyelet for manual manoeuvre. (Accessory)

Fig.1

2 TECHNICAL SPECIFICATIONS

TM45 (ø 45mm)	VOLTAGE	FREQUENCY	POWER	CURRENT	TORQUE	SPEED (Rpm)
8/17	230 V	50 Hz	130 W	0.6 A	8 Nm	17
15/17	230 V	50 Hz	180 W	0.8 A	15 Nm	17
20/17	230 V	50 Hz	230 W	1 A	20 Nm	17
30/17	230 V	50 Hz	250 W	1.1 A	30 Nm	17
35/12	230 V	50 Hz	250 W	1.1 A	35 Nm	12
45/12	230 V	50 Hz	270 W	1.2 A	45 Nm	12
50/12	230 V	50 Hz	300 W	1.4 A	50 Nm	12

TM58 (ø 58mm)	VOLTAGE	FREQUENCY	POWER	CURRENT	TORQUE	SPEED (Rpm)
70/12	230 V	50 Hz	310 W	1.4 A	70 Nm	12
80/12	230 V	50 Hz	320 W	1.5 A	80 Nm	12
100/12	230 V	50 Hz	410 W	1.9 A	100 Nm	12
120/12	230 V	50 Hz	450 W	2.1 A	120 Nm	12

4 INSTALLATION

BEFORE INSTALLING, SELECT:

1) THE WHEEL AND CROWN ADAPTOR (Fig.1 ref.② - ③) MOST SUITABLE FOR THE TYPE OF ROLLER TO BE MOVED.

2) THE MOTOR SUPPORT MOST SUITABLE FOR THE APPLICATION

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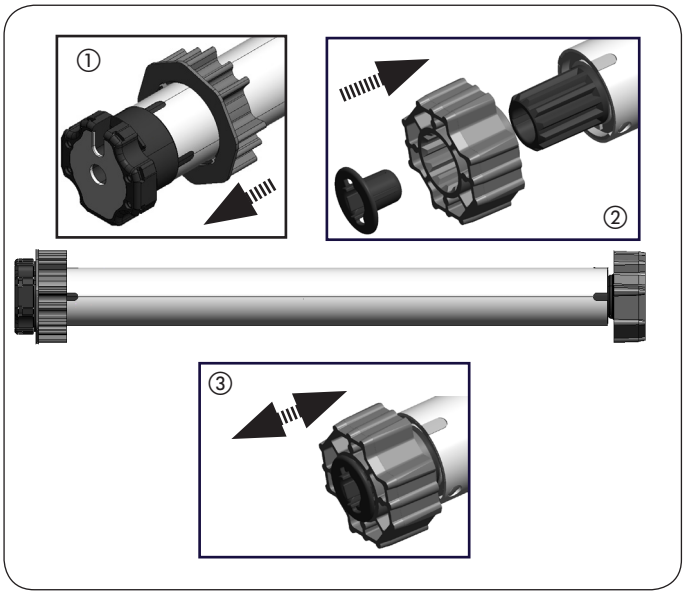
4.1 ASSEMBLY OF TUBULAR MOTOR

1) Fit the crown adapter (Fig.2 ref.①) in the tubular motor, until it is completely inserted in the guide on the travel limit ring nut.
2) Fit the wheel adapter (Fig.2 ref. ②) in the motor shaft. 3) Lock the adapter with the supplied stop. (Fig.2 ref. ③)
4) Make sure that the adapter is well secured (Fig.2 ref. ③)



4.2 INSTALLATION OF TUBULAR MOTOR

1) Drill a hole with a 3 mm diam. bit on the roller (Fig.3 ref.②) at distance A (Fig.3 ref.①), referring to table 1.
2) Insert the assembled tubular motor inside the roller from the side opposite the cap, until the crown adaptor is completely inside the roller (Fig.4 ref.①).
3) Secure the wheel adaptor to the roller with a 4x10 self-tapping screw inserted in the hole you had drilled, as shown in Fig. 4 ref. ②.
4) Install the selected motor from the electric facilities side.

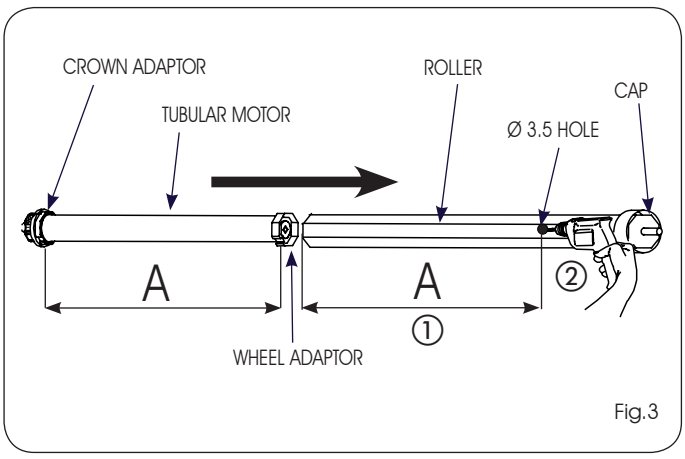


Fig.3

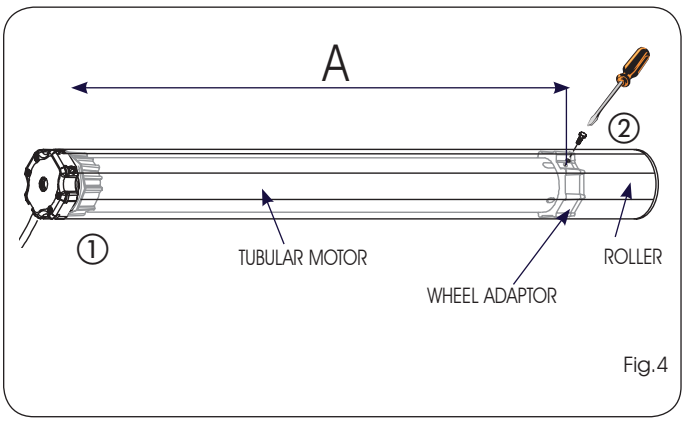


Fig.4

5) Secure the motorised roller on the motor support (Fig.5 ref.①), and insert it on the cap support (Fig.5 ref.②), so that the travel-limit adjustment screws are accessible and that the eyelet can be inserted on the tubular motor.
6) Make sure that the motorised roller is perfectly horizontal and, if necessary, modify the height of the cap or motor supports.
7) Insert the eyelet (Fig.5 ref.③) in the appropriate hole on the tubular motor and secure it with the supplied screw as shown in Fig. 5 ref. ④.

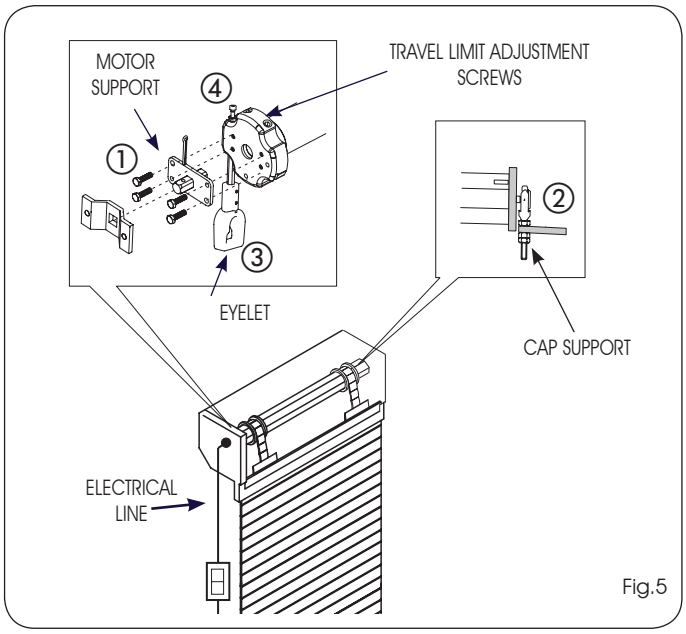


Fig.5

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4.3 ELECTRICAL CONNECTIONS

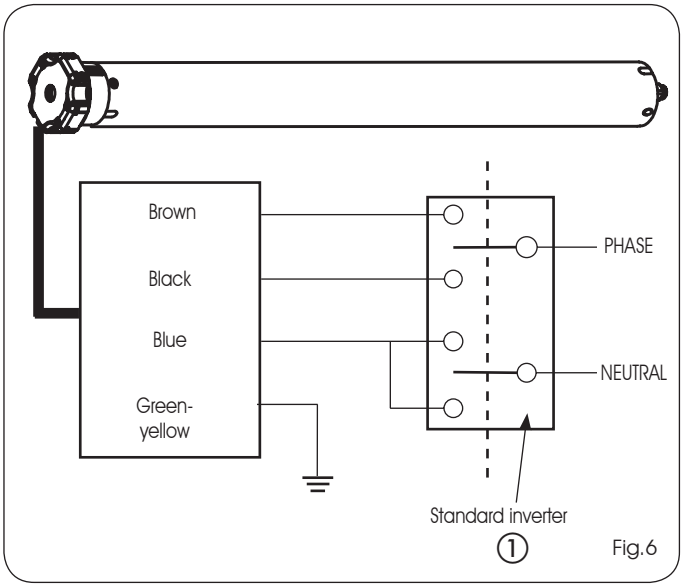

Fig.6

1) Before attempting any action on the system, cut out the electrical power supply.
2) Install an omnipolar switch on the power supply line for the automated system, with contact opening distance of 3mm or more.

1) Connect the wires coming from the motor to a standard inverter, as in the lay-out of figure 6.
2) Connect the inverter to the power supply line as shown in Fig. 6.
3) Power up the electro-roller
4) Press the rise push-button and check if the roller rotates in the winding direction and stop the motor.
5) If the rotation direction is incorrect, cut power and - in the inverter (Fig.6 ref.①) - change over the black wire with the brown wire and check if operation is correct.
6) Press the descent push-button to check operation, and stop the motor.

5 ADJUSTMENT OF THE TRAVEL-LIMIT STOPS

A system of electro-mechanical travel-limit stops is housed inside the FAAC tubular motors. These stops cut power to the motor, when the opening or closing limit of the roller-shutters is reached.

THE TRAVEL-LIMIT STOP SCREWS OF TM R M MODELS, CAN BE REACHED FROM BOTH SIDES OF THE MOTOR (Fig.7) - THIS FACILITATES INSTALLATION AND ADJUSTMENTS.

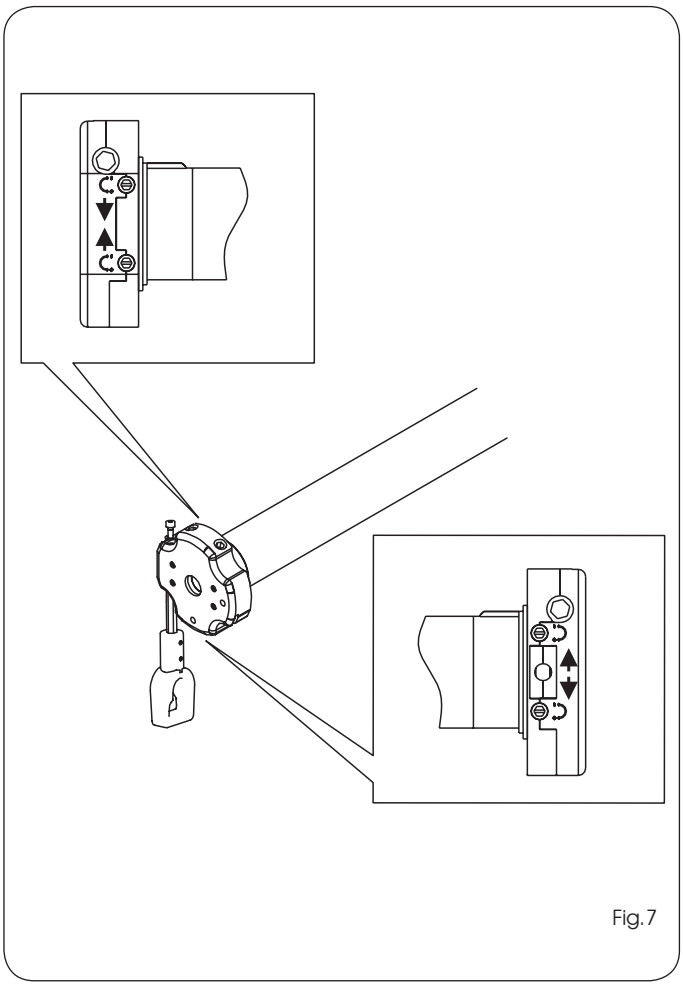
Fig.7

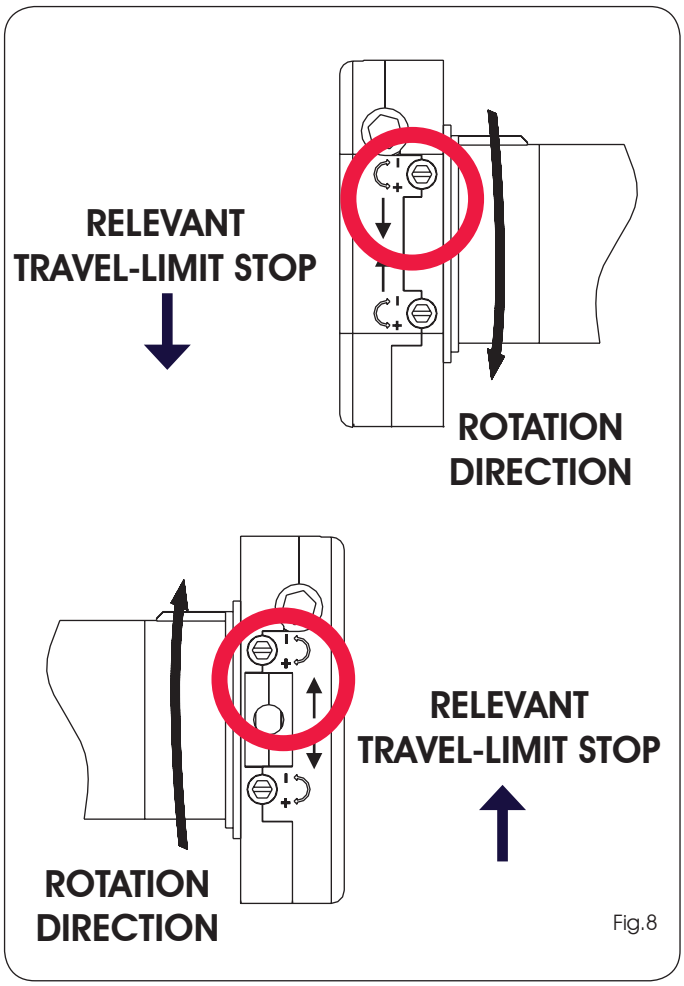

Fig.8

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To help you find the travel-limit stop adjustment screws, refer to figures 9 - 10, according to the motor installation side (RH or LH), and to the box configuration (internal or external).

5.1 ADJUSTMENT OF DESCENT TRAVEL-LIMIT STOP

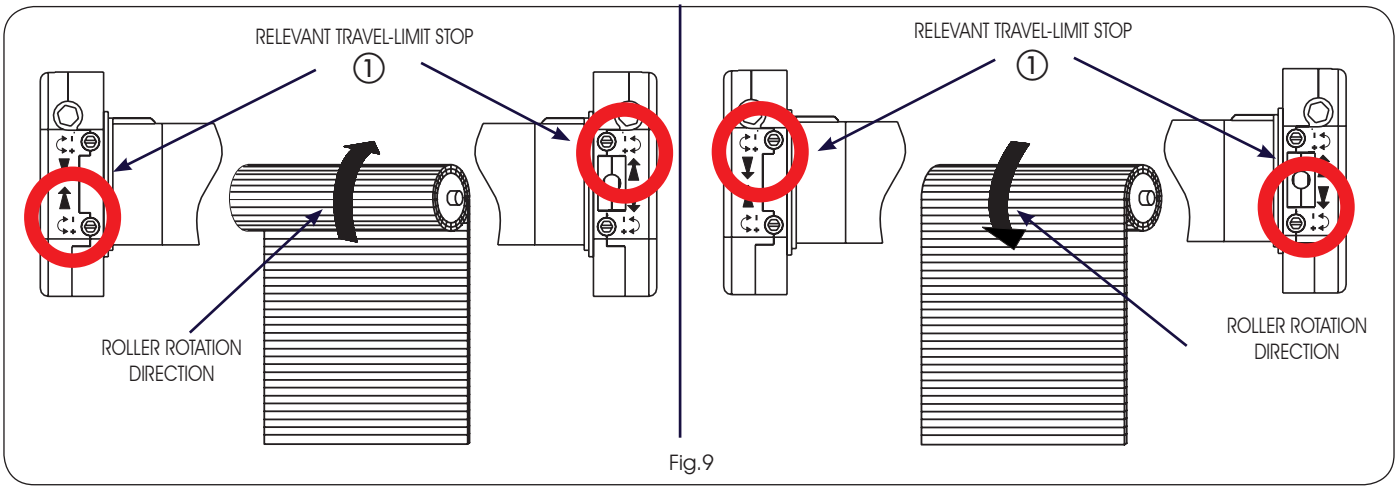

Fig.9

1) Hold down the descent push-button
2) Using the adjustment tool (Fig.1 ref.⑤), turn the screw of the travel-limit stop corresponding to the roller's descent rotation direction (Fig.9 ref.①), toward the plus sign (+) to increase the travel of the roller shutter, or toward the minus sign (-) to reduce it.

5.2 ADJUSTMENT OF RISE TRAVEL-LIMIT STOP

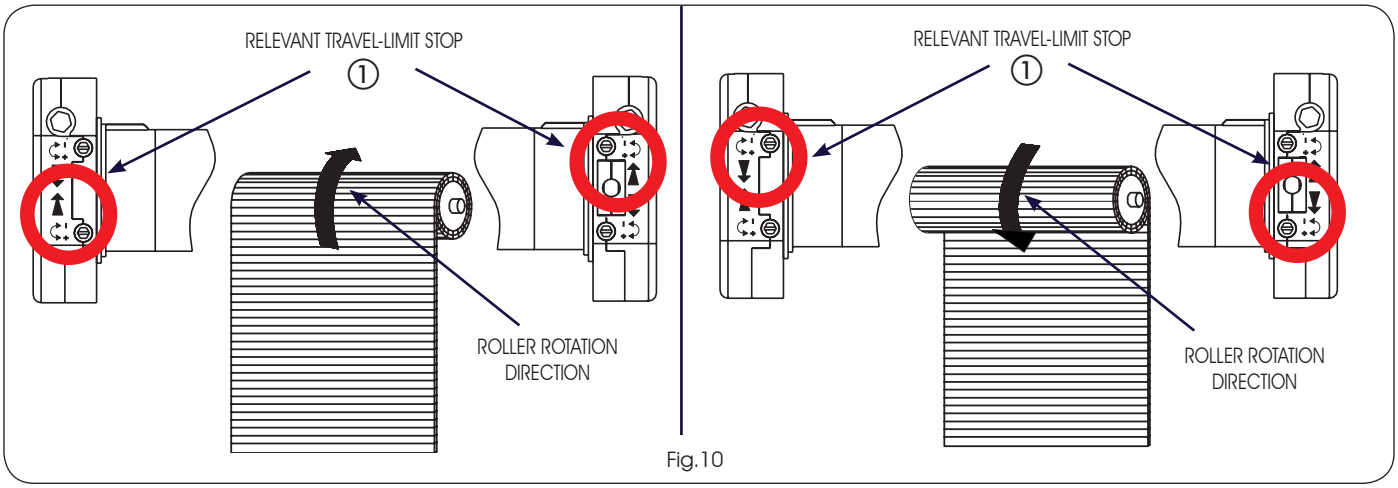

Fig.10

1) Hold down the rise push-button
2) Using the adjustment tool (Fig.1 ref.⑤), turn the screw of the travel-limit stop corresponding to the roller's rise rotation direction (Fig.10 ref.①), toward the plus sign (+) to increase the travel of the roller shutter, or toward the minus sign (-) to reduce it.

6 EMERGENCY MANOEUVRE

The T-Mode M series tubular motors are equipped with a rescue manoeuvre device. Movement of the roller shutter is guaranteed by a manual command even in the event of a temporary power cut.
If no power is supplied, insert the rod in the eyelet (Fig.11 ref.①) and turn it to open or close the roller shutter

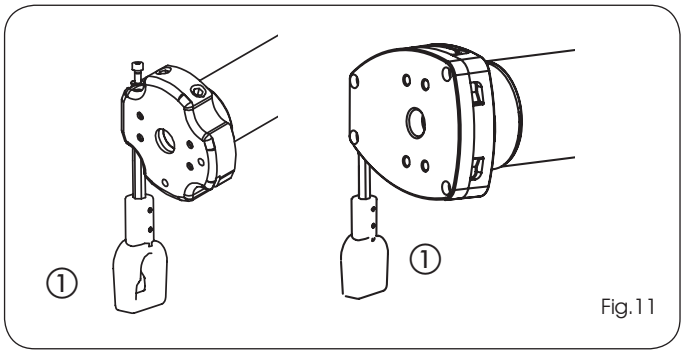

Fig.11

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SEDE - HEADQUARTERS

FAAC S.p.A.
Via Calari, 10
40069 Zola Predosa (BO) - ITALY
Tel. +39 051 61724 - Fax +39 051 758518
www.faac.it - www.faacgroup.com

ASSISTENZA IN ITALIA

SEDE
tel. +39 051 6172501
www.faac.it/ita/assistenza

MILANO
tel +39 02 66011163
filiale.milano@faacgroup.com

PADOVA
tel +39 049 8700541
filiale.padova@faacgroup.com

ROMA
tel +39 06 41206137
filiale.roma@faacgroup.com

TORINO
tel +39 011 6813997
filiale.torino@faacgroup.com

FIRENZE
tel. +39 055 301194
filiale.firenze@faacgroup.com

SUBSIDIARIES

AUSTRIA
FAAC GMBH
Salzburg, Austria
tel. +43 662 8533950
www.faac.at

FAAC TUBULAR MOTORS
Schaapweg 30
NL-6063 BA Vlodrop, Netherlands
tel. +31 475 406014
faactm.info@faacgroup.com
www.faac.at

GERMANY
FAAC GMBH
Freilassing, Germany
tel. +49 8654 49810
www.faac.de

FAAC TUBULAR MOTORS
Schaapweg 30
NL-6063 BA Vlodrop, Netherlands
tel. +31 475 406014
faactm.info@faacgroup.com
www.faac.de

BENELUX
FAAC BENELUX NV/SA
Brugge, Belgium
tel. +32 50 320202
www.faacbenelux.com

FAAC TUBULAR MOTORS
Schaapweg 30
NL-6063 BA Vlodrop, Netherlands
tel. +31 475 406014
faactm.info@faacgroup.com
www.faacbenelux.com

AUSTRALIA
FAAC AUSTRALIA PTY LTD
Homebush – Sydney, Australia
tel. +61 2 87565644
www.faac.com.au

INDIA
FAAC INDIA PVT. LTD
Noida – Delhi, India
tel. +91 120 3934100/4199
www.faacindia.com

SWITZERLAND
FAAC AG
Altdorf, Switzerland
tel. +41 41 8713440
www.faac.ch

CHINA
FAAC SHANGHAI
Shanghai, China
tel. +86 21 68182970
www.faacgroup.cn

NORDIC REGIONS
FAAC NORDIC AB
Perstorp, Sweden
tel. +46 435 779500
www.faac.se

POLAND
FAAC POLSKA SP.ZO.O
Warszawa, Poland
tel. +48 22 8141422
www.faac.pl

UNITED KINGDOM
FAAC UK LTD.
Basingstoke - Hampshire, UK
tel. +44 1256 318100
www.faac.co.uk

SPAIN
F.A.A.C. SA
San Sebastián de los Reyes.
Madrid, Spain
tel. +34 91 6613112
www.faac.es

RUSSIA
Faac RUSSIA
Moscow, Russia
+7 495 646 24 29
www.faac.ru

FRANCE
FAAC FRANCE
Saint Priest - Lyon, France
tel. +33 4 72218700
www.faac.fr

FAAC FRANCE - AGENCE PARIS
Massy - Paris, France
tel. +33 1 69191620
www.faac.fr

FAAC FRANCE - DEPARTEMENT VOLETS
Saint Denis de Pile - Bordeaux, France
tel. +33 5 57551890
fax +33 5 57742970
www.faac.fr

U.S.A.
FAAC INTERNATIONAL INC
Jacksonville, FL - U.S.A.
tel. +1 904 4488952
www.faacusa.com

FAAC INTERNATIONAL INC
Fullerton, California - U.S.A.
tel. +1 714 446 9800
www.faacusa.com

MIDDLE EAST
FAAC MIDDLE EAST BRANCH
Dubai Airport Free Zone - Dubai, UAE
tel. +971 42146733
www.faac.ae

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